

**TRS 230VUC 1CO 16A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

- 1 CO contact
- Contact material: AgNi
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 5 V DC to 230 V UC with coloured marking: AC: red, DC: blue, UC: white

**General ordering data**

|            |                                                                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 230 V UC $\pm 5\%$ , Continuous current: 16 A, Screw connection, Test button available: No |
| Order No.  | <a href="#">1479740000</a>                                                                                                                                                          |
| Type       | TRS 230VUC 1CO 16A                                                                                                                                                                  |
| GTIN (EAN) | 4050118288070                                                                                                                                                                       |
| Qty.       | 10 pc(s).                                                                                                                                                                           |

Creation date September 16, 2022 5:58:32 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 87.8 mm | Depth (inches)  | 3.457 inch |
| Height     | 89.6 mm | Height (inches) | 3.528 inch |
| Width      | 12.8 mm | Width (inches)  | 0.504 inch |
| Net weight | 56 g    |                 |            |

### Temperatures

|                     |                                                                            |                       |                |
|---------------------|----------------------------------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C                                                             | Operating temperature | -40 °C...60 °C |
| Humidity            | 5-95% relative humidity,<br>T <sub>u</sub> = 40°C, without<br>condensation |                       |                |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### Rated data UL

|                                         |                                                      |                                    |                            |
|-----------------------------------------|------------------------------------------------------|------------------------------------|----------------------------|
| Ambient temperature (operational), max. | 60 °C                                                | Output current derating (ohmic)    | 12 A @ 60 °C, 16 A @ 55 °C |
| Connection cross-section AWG, min.      | AWG 26                                               | Connection cross-section AWG, max. | AWG 14                     |
| Type of conductor                       | rigid copper conductor,<br>flexible copper conductor | Tightening torque, max.            | 0.4 Nm                     |
| Pollution severity level                | 2                                                    |                                    |                            |

### Control side

|                                                                                   |                                    |                                       |                                  |
|-----------------------------------------------------------------------------------|------------------------------------|---------------------------------------|----------------------------------|
| Rated control voltage                                                             | 230 V UC ±5 %                      | Rated current AC                      | 4 mA                             |
| Rated current DC                                                                  | 4 mA                               | Power rating                          | 920 mVA / 920 mW                 |
| Pull-in/drop-out voltage, typ.                                                    | 112 V / 43 V AC<br>129 V / 36 V DC | Pull-in/drop-out current, typ.        | 2 mA / 1 mA AC<br>2 mA / 1 mA DC |
| Status indicator                                                                  | Green LED                          | Protective circuit                    | Rectifier                        |
| Coil voltage of the replacement relay<br>deviating from the rated control voltage | Yes                                | Coil voltage of the replacement relay | 110 V DC                         |

### Load side

|                                         |                                       |                                         |                            |
|-----------------------------------------|---------------------------------------|-----------------------------------------|----------------------------|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 16 A                       |
| Max. switching frequency at rated load  | 0.1 Hz                                | Max. switching voltage, DC              | 250 V                      |
| Inrush current                          | 30 A / 4 s                            | AC switching capacity (resistive), max. | 4000 VA                    |
| DC switching capacity (resistive), max. | 384 W @ 24 V                          | Switch-on delay                         | ≤ 14 ms                    |
| Switch-off delay                        | < 22 ms                               | Contact type                            | 1 CO contact (AgNi)        |
| Mechanical service life                 | 30 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 10 mA @ 10 V, 100 mA @ 5 V |

### General data

|                                      |                           |                |  |
|--------------------------------------|---------------------------|----------------|--|
| Operating altitude                   | ≤ 2000 m, above sea level |                |  |
| Rail                                 | TS 35                     |                |  |
| Test button available                | No                        |                |  |
| Mechanical switch position indicator | No                        |                |  |
| Colour                               | black                     |                |  |
| UL94 flammability rating component   | Component                 | Housing        |  |
|                                      | UL94 flammability rating  | V-0            |  |
|                                      | Component                 | Retaining clip |  |
|                                      | UL94 flammability rating  | V-0            |  |

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### Insulation coordination

|                                                  |                             |                                                               |                              |
|--------------------------------------------------|-----------------------------|---------------------------------------------------------------|------------------------------|
| Rated voltage                                    | 300 V                       | Pollution severity                                            | 2                            |
| Surge voltage category                           | III                         | Clearance and creepage distances for control side - load side | ≥ 6 mm                       |
| Dielectric strength for control side - load side | 1.2 kV <sub>eff</sub> / 5 s | Type of isolation at input and output                         | reinforced insulation        |
| Dielectric strength of open contact              | 1 kV <sub>eff</sub> / 1 min | Dielectric strength to mounting rail                          | 4 kV <sub>eff</sub> / 1 Min. |
| Impulse withstand voltage                        | 6 kV (1.2/50 µs)            | Protection degree                                             | IP20                         |

### Further details of approvals / standards

|                         |             |                         |            |
|-------------------------|-------------|-------------------------|------------|
| Standards               | IEC 61810-1 | Certificate No. (DNVGL) | TAA00001E5 |
| Certificate no. (cULus) | E141197     |                         |            |

### Connection data

|                                                                                         |                      |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|---------------------|
| Wire connection method                                                                  | Screw connection     | Stripping length, rated connection                                                      | 8 mm                |
| Tightening torque, max.                                                                 | 0.4 Nm               | Clamping range, rated connection                                                        | 1.5 mm <sup>2</sup> |
| Clamping range, min.                                                                    | 0.14 mm <sup>2</sup> | Clamping range, max.                                                                    | 2.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                                                 | AWG 26               | Wire connection cross section AWG, max.                                                 | AWG 14              |
| Wire cross-section, solid, min.                                                         | 0.14 mm <sup>2</sup> | Wire cross-section, solid, max.                                                         | 2.5 mm <sup>2</sup> |
| Wire cross-section, solid, min. (AWG)                                                   | AWG 26               | Wire cross-section, solid, max. (AWG)                                                   | AWG 14              |
| Wire connection cross section, finely stranded, min.                                    | 0.14 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup> |
| Wire cross-section, finely stranded, min. (AWG)                                         | AWG 26               | Wire cross-section, finely stranded, max. (AWG)                                         | AWG 16              |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.25 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.25 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.               | 0.5 mm <sup>2</sup>  | Wire cross-section, finely stranded, two clampable wires, max.                          | 1 mm <sup>2</sup>   |
| Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>  | Twin wire-end ferrules, max.                                                            | 1 mm <sup>2</sup>   |
| Blade size                                                                              | size PH0             | Gauge to IEC 60947-1                                                                    | A1, B1              |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ECLASS 9.0  | 27-37-16-01 |
| ECLASS 9.1  | 27-37-16-01 | ECLASS 10.0 | 27-37-16-01 |
| ECLASS 11.0 | 27-37-16-01 | ECLASS 12.0 | 27-37-16-01 |

### Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E141197    |

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### Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                         |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

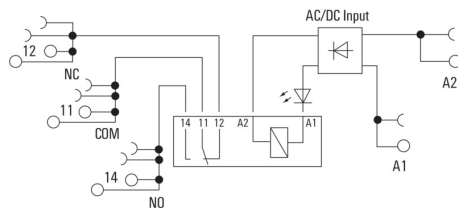
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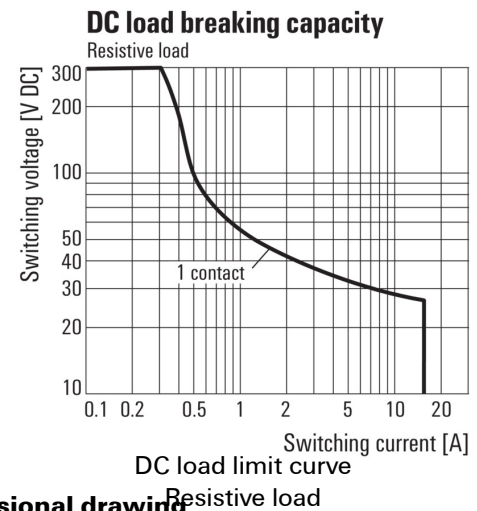
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## Drawings

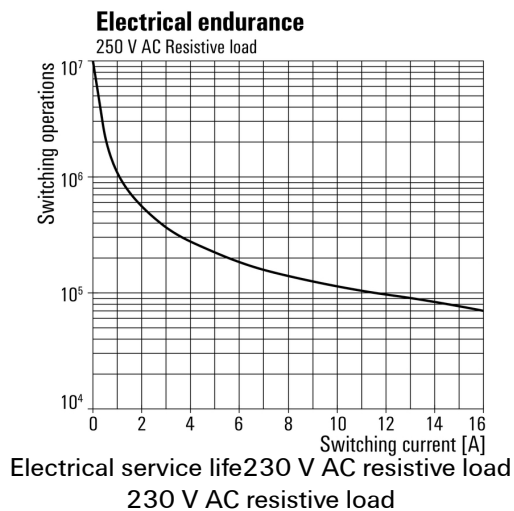
### Wiring diagram



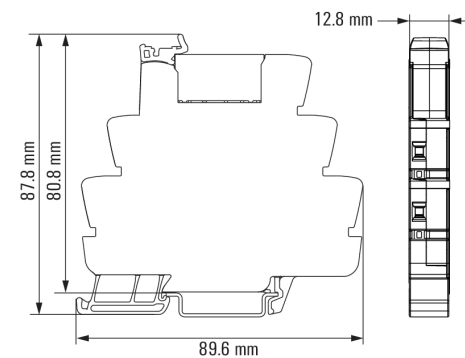
### Graph



### Graph



### Dimensional drawing



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## Drawings

### Miscellaneous

## Type code TERMSERIES electromechanical relay versions



Type codes